## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/002755

|   | CATION OF SUBJECT MATTER  7 C12N15/09, C12N9/04, C12P17/   | 12, C12P17/16   |   |
|---|--|---|---|
| According to In   | ternational Patent Classification (IPC) or to both nation  | al classification and IPC   |   |
| B. FIELDS SI  | EARCHED  |   |   |
| Minimum doeu<br>Int . Cl  | nentation searched (classification system followed by coordinate of the control o | classification symbols) 12, 'C12P17/16  |   |
| Electronic data l   | searched other than minimum documentation to the extense consulted during the international search (name of ISTRY/BIOSIS/CASREACT/WPIDS (ST  | data base and, where practicable, search te   | rms used)   |
| SwissP  | rot/PIR/GeneSeq  | ······  |   |
| C. DOCUME   | NTS CONSIDERED TO BE RELEVANT  |   |   |
| Category*   | Citation of document, with indication, where a   | ppropriate, of the relevant passages  | Relevant to claim No.                                 |
| X<br>A  | JP 2003-269 A (Kirin Brewery<br>07 January, 2003 (07.01.03),<br>Claims 4, 16, 17<br>& US 2004086983 A  | CO., Ltd.),   | 8-10<br>1-7   |
| A   | TAIRA, Kazunari; HIROSE, Jun; HAYASHIDA,<br>Shinsaku; FURUKAWA, Kensuke, Analysis of<br>bph operon from the polychlorinated<br>biphenyl-degrading strain of Pseudomonas<br>pseudoalcaligenes KF 707, Journal of Biological<br>Chemistry(1992), 267(7), 4844-53   |   | 8-10<br>1-7   |
| X<br>A  | JP 2000-69967 A (Japan Scien<br>Corp.),<br>07 March, 2000 (07.03.00),<br>Claims<br>(Family: none)  | ce and Technology   | 8-10<br>1-7   |
| Further documents are listed in the continuation of Box C.  |  | See patent family annex.  |   |
| * Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance                              |  | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |   |
| "E"—earlier application or patent but published on or after the international filing date   |  | "X" document of particular relevance; the cla<br>considered novel or cannot be considered.  | aimed invention cannot be red to involve an inventive |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)         |  | "Y" document of particular relevance; the cla<br>considered to involve an inventive st  |   |
| "P" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed |  | combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family   |   |
| Date of the actual completion of the international search 11 March, 2005 (11.03.05)   |  | Date of mailing of the international search report 29 March, 2005 (29.03.05)  |   |
| Name and mailing address of the ISA/<br>Japanese Patent Office  |  | Authorized officer  |   |
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International application No.
PCT/JP2005/002755

|   |   | PCT/JP2         | 2005/002755           |
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| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT |   |                 |                       |
| Category*   | Citation of document, with indication, where appropriate, of the releva   | int passages    | Relevant to claim No. |
| Х<br>А  | Erickson, Bruce D.; Mondello, Frank J.,<br>Nucleotide sequencing and transcriptional<br>mapping of the genes encoding biphenyl<br>dioxygenase, a multicomponent polychlorin<br>biphenyl-degrading enzyme in Pseudomonas<br>LB400, Journal of Bacteriology(1992), 174<br>2903-12 | ated-<br>strain | 8-10<br>1-7           |
| X<br>A  | JP 5-3785 A (Mercian Corp.),<br>14 January, 1993 (14.01.93),<br>Claims<br>(Family: none)  |                 | 8-10<br>1-7           |
| A   | SUENAGA, Hikaru; GOTO, Masatoshi; FURUKAWA<br>Kensuke, Emergence of multifunctional oxyg<br>activities by random priming recombination<br>Journal of Biological Chemistry(2001), 276<br>22500-22506   | genase<br>n,    | 1-7                   |
| A   | JP 55-307 A (Idemitsu Kosan Co., Ltd.), 05 January, 1980 (05.01.80), Full text (Family: none)   |                 | 17                    |
| Ä.  | Yasuhisa, ASANO; Yasushi, YAMAMOTO; Hideak YAMADA, Catechol 2,3-Dioxygenas-catalyzed Synthesis of Picolinic Acids from Catechol Biosci.Biotech.Biochem., (1994), 58(11), p.2054 to 2056   |                 | 1-7                   |
| A   | Spain, Jim C.; NISHINO, Shirley F.; Withol Bernard; Tan, Loon-Seng; Duetz, Wouter A., Production of 6-phenylacetylene picolinic acid from diphenylacetylene by toluenedegrading Acinetobacter strain, Applied an Environmental Microbiology (2003), 69(7), 4 to 4042            | ıd              | 1-7                   |
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